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PIEZOELECTRIC DEVICE AND MANUFACTURE THEREOF

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PROBLEM TO BE SOLVED: To provide a piezoelectric device which is sintered at a low temperature and high in piezoelectric characteristics and where electrodes of Ag-Pd alloy or the like can be used. SOLUTION: The piezoelectric body of a piezoelectric element is formed through a manner where at maximum 5 mol.% lead oxide, silver oxide, and bismuth oxide or a mixture of them is mixed as additive into material powder whose composition is represented by a formula, aPbNI1/3 Nb2/3 O3 -bPbTiO3 cPbZrO3 (where 0.4<a<0.6, 0.25<b<0.45, 0.05<c<0.25, and a+b+c=1) for the formation of piezoelectric material powder, and the piezoelectric material powder is intered into a piezoelectric body where the additive component is removed.

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